

CLAIMS

What is claimed is:

1. A stator device comprising a stator body having at least a pair of magnetic protuberances for supporting a wound wire, at least one stud disposed between the at least a pair of magnetic protuberances, a jumper wire extending behind the at least one stud and connecting the at least a pair of magnetic protuberances, and an abutment extending from the at least one stud to support the jumper wire and form a gap between the jumper wire and the stud to permit an applied varnish to flow out through the gap.

2. The stator device according to claim 1 wherein the abutment comprises first and second laterally spaced ribs extending from a wall of the stud opposite the jumper wire.

3. The stator device according to claim 2 further comprising a dam wall projecting from the stator body between the laterally spaced ribs to collect an applied varnish flowing through the gap.

4. The stator device according to claim 2 wherein the first and second ribs are formed so that each rib forms an approximately right-angled triangle extending from the stud wall to the stator body, and wherein the jumper wire rests on oblique sides of the approximately right-angled triangles.

5. The stator device according to claim 4 wherein the oblique sides of the approximately right-angled triangles are slightly concave.

6. The stator device according to claim 1 wherein the abutment comprises a rib extending from a wall of the stud.

7. The stator device according to claim 6 wherein the rib comprises an oblique wall extending from the stud wall to the stator body for supporting the jumper wire and forming a second gap between the jumper wire and the stator body.

8. The stator device according to claim 1 wherein the at least one stud is one of a rectangular structure and a cylindrical structure.

9. The stator device according to claim 1 wherein the stator body further comprises an insulator and the at least one stud projects from the insulator.

10. The stator device according to claim 1 further comprising a plurality of magnetic protuberances, a plurality of studs each having an abutment, at least one stud between each adjacent pair of magnetic protuberances and a plurality of jumper wires, with one jumper wire extending between each adjacent pair of magnetic protuberances and supported by the abutment to form a gap between the jumper wire and the stud.

11. In a stator device having a stator body provided with a plurality of magnetic protuberances for supporting a wound wire, studs disposed between the plurality of magnetic protuberances and jumper wires that connect at least two adjacent magnetic protuberances and extend behind the studs, a method of winding a wire and applying a varnish to the wound wire comprising the steps of winding the wire around the magnetic protuberances, spacing the jumper wires from at least one of the studs and the stator body and applying a varnish to the wire such that excess varnish applied to

the jumper wires flows through the spacing formed between the jumper wires and at least one of the studs and the stator body.

12. The method according to claim 11 wherein the connecting wire is spaced from the stud and stator body.

13. The method according to claim 12 wherein the stud includes an abutment for spacing the jumper wire from the stud.

14. The method according to claim 13 wherein the abutment includes a sloping wall for spacing the connecting wire from the stator body and the stud.

15. A stator device having a stator body provided with magnetic poles and windings connecting the magnetic poles, studs for supporting a connecting portion of the windings extending between the magnetic poles, and at least one of the studs including an abutment for spacing the connecting portion of the winding from at least one of the studs and the stator body.

16. The stator device according to claim 15 wherein the abutment comprises first and second laterally spaced ribs extending from a wall of the stud.

17. The stator device according to claim 15 wherein the abutment comprises a rib extending from a wall of the stud.

18. The stator device according to claim 17 wherein the rib comprises an oblique wall extending from the stud wall to the stator body.

19. The stator device according to claim 15 wherein the stator body further comprises an insulator and the studs project from the insulator.

20. In a stator device having a stator body having at least a pair of magnet protuberances for supporting a wound wire, at least one stud disposed between the at least a pair of magnet protuberances, a jumper wire extending behind the at least one stud and connecting the at least a pair of magnetic protuberances, the at least one stud comprising an abutment member extending from a wall of the at least one stud facing the jumper wire for supporting the jumper wire such that a gap is formed between the stud wall and the stator body.